

	Type	L #	Hits	Search Text	DBs	Time Stamp
1	BRS	L1	1	inspect\$4 adj15 ((surface near treat\$4) adj3 (golf near ball))	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/12/01 16:00
2	BRS	L2	1	inspect\$4 adj15 ((surface near treat\$4) adj1 (golf near ball))	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/12/01 15:46
3	BRS	L3	17	((surface near treat\$4) adj1 (golf near ball))	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/12/01 15:56
4	BRS	L4	1	"5286532".PN.	USPAT	2001/12/01 15:48
5	BRS	L5	30	((surface near treat\$4) adj6 (golf near ball))	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/12/01 15:57
6	BRS	L6	2	inspect\$4 adj15 (treat\$4 near4 ball)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/12/01 16:01

	Type	L #	Hits	Search Text	DBs	Time Stamp
7	BRS	L7	0	inspect\$4 adj15 (treat\$4 near ball)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/12/01 16:01
8	BRS	L9	6	8 and treat\$4	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/12/01 16:02
9	BRS	L8	45	inspect\$4 adj15 (surface near ball)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM TDB	2001/12/01 16:08
10	BRS	L10	1	"5777244".PN.	USPAT	2001/12/01 16:11
11	BRS	L11	1	"5703687".PN.	USPAT	2001/12/01 16:11
12	BRS	L12	1	"5568250".PN.	USPAT	2001/12/01 16:11
13	BRS	L13	1	"5517027".PN.	USPAT	2001/12/01 16:12

	U	1	Document ID	Issue Date	Pages
1	<input type="checkbox"/>	<input type="checkbox"/>	US 20010012389 A1		19
2	<input type="checkbox"/>	<input type="checkbox"/>	US 20010006998 A1		8
3	<input type="checkbox"/>	<input type="checkbox"/>	US 6315915 B1	20011113	10
4	<input type="checkbox"/>	<input type="checkbox"/>	US 5985370 A	19991116	5
5	<input type="checkbox"/>	<input type="checkbox"/>	US 5466424 A	19951114	14
6	<input type="checkbox"/>	<input type="checkbox"/>	US 5316739 A	19940531	34
7	<input type="checkbox"/>	<input type="checkbox"/>	US 5286532 A	19940215	18
8	<input type="checkbox"/>	<input type="checkbox"/>	US 5160536 A	19921103	5
9	<input type="checkbox"/>	<input type="checkbox"/>	JP 10165886 A	19980623	6
10	<input type="checkbox"/>	<input type="checkbox"/>	JP 06016844 A	19940125	5
11	<input type="checkbox"/>	<input type="checkbox"/>	JP 06016843 A	19940125	4
12	<input type="checkbox"/>	<input type="checkbox"/>	JP 04277533 A	19921002	5
13	<input type="checkbox"/>	<input type="checkbox"/>	US 5286532 A	19940215	18
14	<input type="checkbox"/>	<input type="checkbox"/>	US 5985370 A	19991116	5

	Title	Current OR	Current XRef
1	Apparatus and method for automated game ball inspection		
2	Golf ball materials and golf ball		
3	Treatment for facilitating bonding between golf ball layers and resultant golf balls	216/67	156/272.6 ; 473/371 ; 473/372 ; 473/373 ; 473/374 ; 473/377
4	Surface treatment of golf balls	427/387	427/322 ; 427/386 ; 427/393.5 ; 427/412.1 ; 427/430.1
5	Corona discharge surface treating method	422/186.05	427/322 ; 427/536 ; 427/539 ; 427/569 ; 473/385
6	Method and apparatus for surface treatment	422/186.05	422/186
7	Method for producing golf balls	427/536	427/539 ; 473/378
8	Printing ink for golf balls	106/31.37	106/31.69
9	SURFACE TREATMENT OF GOLF BALL		
10	APPARATUS FOR SURFACE TREATMENT OF GOLF BALL		
11	APPARATUS FOR SURFACE TREATMENT OF GOLF BALL		
12	SURFACE TREATMENT OF GOLF BALL		
13	Method for producing golf balls		
14	Surface treatment of golf ball - uses silane coupling agent to improve durability, abrasion resistance and waterproof property		

	U	1	Document ID	Issue Date	Pages
15	<input type="checkbox"/>	<input type="checkbox"/>	US 5286532 A	19940215	18
16	<input type="checkbox"/>	<input type="checkbox"/>	JP 04277533 A	19921002	4
17	<input type="checkbox"/>	<input type="checkbox"/>	JP 59144465 A	19840818	6

	Title	Current OR	Current XRef
15	Golf ball prodn using atmospheric pressure plasma - utilising insulating vessel contg three or more elongate inner and outer electrode pairs		
16	Treatment of golf ball surface before coating with paint - by using hydrochloric acid soln. contg. metal hypochlorite to improve paint		
17	Low temp. plasma treatment of golf balls - to increase adhesiveness to paint		

CLIPPEDIMAGE= JP406016844A
PAT-NO: JP406016844A
DOCUMENT-IDENTIFIER: JP 06016844 A
TITLE: APPARATUS FOR SURFACE TREATMENT OF GOLF BALL

PUBN-DATE: January 25, 1994

INVENTOR-INFORMATION:

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COUNTRY

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APPL-NO: JP04216823

APPL-DATE: August 14, 1992

INT-CL_(IPC): C08J007/00; A63B045/00

ABSTRACT:

PURPOSE: To provide an apparatus for surface treatment of a golf ball whereby high shock peeling resistance can be imparted to the surface coating layer of a golf ball, and the safety of the production process can be kept high.

CONSTITUTION: The apparatus consists of a vacuum vessel 2 provided with a gas inlet valve 1, a high-frequency electric source 4 and an evacuation valve 5, a guide rail holding golf balls and descending helically in the vacuum vessel, and an electrode which is the guide rail itself.

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CLIPPEDIMAGE= JP409061364A

PAT-NO: JP409061364A

DOCUMENT-IDENTIFIER: JP 09061364 A

TITLE: METHOD FOR INSPECTING APPEARANCE OF GOLF BALL AND
APPEARANCE INSPECTING
DEVICE

PUBN-DATE: March 7, 1997

INVENTOR-INFORMATION:

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ASSIGNEE-INFORMATION:

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APPL-NO: JP07243685

APPL-DATE: August 29, 1995

INT-CL (IPC): G01N021/88; A63B045/00 ; G01B011/30 ; G06T001/00 ;
G06T007/00

ABSTRACT:

PROBLEM TO BE SOLVED: To surely detect a failure such as a flaw or dirt generated on the surface of golf ball from an image taken by a camera by image processing.

SOLUTION: In the method of inspecting the appearance of a golf ball G which comprises photographing the golf ball surface with a camera 4 to provide a two dimensional image, and detecting an appearance failure such as flaw, partial deformation or dirt generated on the surface of the golf ball G from the two-dimensional image, two prescribed ranges 9a, 9b on the golf ball surface which are mutually point symmetric with the center point of the golf ball G between are photographed by the camera 4 to provide two two-dimensional images. The resulting two-dimensional images are mutually superposed to determine the difference in data of both the two-dimensional images, thereby,

the common part
of both the two-dimensional images is erased, and a failure part
appearing as
the non-common part of both the two-dimensional image is
detected.

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